TRICON INDUSTRIES INCORPORATED
ELECTROMECHANICAL DIVISION

2325 Wisconsin Avenue, Downers Grove, Illinois 60515-4076 708/964-2330 FAX 708/964-5179

July 18, 1990

Ms. Janet Lacina
Downers Grove Sanitary District
2710 Curtiss Street
P.O. Box 1412
Downers Grove, IL 60516-1412

Dear Ms. Lacina:

Please find enclosed the completed Industrial Discharge Permit Application. Also enclosed are the drawings which the application requires.

If you should have any questions regarding our application, please do not hesitate to contact me.

Sincerely,

Susan Grandle

Ms. Susan Grandle

DOWNERS GROVE SANITARY DISTRICT
INDUSTRIAL DISCHARGE PERMIT APPLICATION/BASELINE REPORT
[40 CFR Part 403.12(b)(1-7)]

Who should submit this Application/Report?

Users identified as being Significant Industrial Users according to the definition of an SIU in the District's Sewer Use Ordinance:

1. a user with a discharge flow of 50,000 gallons or more, per average work day,
2. a discharge flow greater than one percent of the flow in the District's wastewater treatment system,
3. has in its wastewater incompatible pollutants as defined pursuant to Section 307 of the Clean Water Act, State Statutes, or applicable federal or state rules and regulations,
4. is found by the District, IEPA, or USEPA to have significant impact, either singly, or in combination with contributing industries, on the wastewater treatment system, the quality of sludge, the system's effluent quality, or air emissions generated by the system,
5. is subject to any National Categorical Pretreatment Standard.

When is this Application/Report due?

The completed form must be submitted to the District within ninety (90) days from the date of the cover letter which accompanied this Application/Report.

Citations following headings in this Application/Baseline Report refer to the appropriate section and paragraph in 40 CFR Part 403.12 (b) (1-7) of the General Pretreatment Regulations for New and Existing Sources (January 28, 1981 Federal Register) and the amendments to these regulations.

DOWNERS GROVE SANITARY DISTRICT
Application for Industrial Discharge Permit

SECTION I. Identifying Information [403.12(b)(1)]

A. Facility Name: Tricon Ind.

B. Business Address

Street: 2325 Wisconsin Ave. City: Downers Grove State: Il.

C. Location of Permitted Discharge

Street: same City: State:

D. The name of the person completing this application:

Name: Susan Grandle Title: Human Resource Manager Phone: (708) 964-233

E. Organization of Business: (sole proprietorship, partnership, or corporation)

1. If sole proprietorship, give name of owner and assumed name, if different than answer to IA above.

2. If partnership, give names of general partners and assumed name, if different than answer to IA above.

3. If corporation, give state in which incorporated, and the name and address of registered agent. Statutory Agent

Delaware; Prentice Hall Corporate Services P.O. Box 102670 Atlanta, GA 30368

F. Number of Employees: (average annual number of employees at permitted facility, all shifts)

300 Employees for three (3) shifts

G. Schedule of Operation: (state as an approximate annual average, include process operations and clean-up schedules)

Aveverage annual days per week of operation: 5-1/2

H. Time and duration of discharge to sanitary sewer: (state as an approximate annual average)

Discharge occurs from 12:00 (am)/pm to 11:59 am/(pm)

Circle the days of the week that discharge occurs: S (M) (T) (W) (T) (F) (S)

I. List Standard Industrial Codes (SIC) which apply to your facility: [if more than one applies, list in descending order of importance].

3079 ; 3678 ; 3643 ; ; .

SECTION II. Production Data [403.12(b)(3)]

A. Describe process operations which result in a discharge to the sanitary sewer system, and the production rates, expressed as an average over the chosen time period.

Operation Description	Average Rate of Production Basis (Choose one)	Amount (exact figure or verifiable estimate)
	Day	
	Month	
Plating	Year	4,500,000 Parts
	Day	
	Month	
Vibratory/ Tumbling Finishing	Year	15,000,000 Parts
	Day	
	Month	
	Year	

(Attach additional sheets if necessary)

B. Schematic Process Diagram [403.12(b)(3)]

Provide a schematic process diagram which indicates points of discharge to the sanitary sewer from each regulated process as found in the applicable categorical regulation {National Categorical Pretreatment Standards}, as well as non-regulated processes.

SECTION III. Wastewater Flow Rates [403.12(b)(4)(i)&(ii)]

A. The following wastewater flow rates to the sanitary sewer are to be provided by the Industrial User and must be physically measured unless other verifiable techniques are approved by the Downers Grove Sanitary District due to cost or non-feasibility.

Maximum Daily Flow (Gals/Day): (report the largest daily flow expected throughout the year for all discharges)

10,000 Gal/Day

Annual Daily Average Flow (Gals/Day): (report an average of the work day flows for one, 12 month period, include all disharges)

6,240.28 Gallons

Describe any weekly, monthly or seasonal flow variations:_____

B. Industrial Process Discharge

Industrial Process 1.(describe) Plating (See page 5)

Process 1 discharge is:

Continuous ( ) Volume per day: 17,000 Average Parts

Batch ( ) Volume per batch: 3400 batches/day 5

Industrial Process 2.(describe)_____

Process 2 discharge is:

Continuous ( ) Volume per day: 50,000 Average Parts

Batch ( ) Volume per batch: 2500 Parts batches/day 20

Industrial Process 3.(describe)_____

Process 3 discharge is:

Continuous ( ) Volume per day:_____

Batch ( ) Volume per batch:_____batches/day_____

C. Using information from water bills, sanitary sewer bills, and your plants records, show where the water used for the individual processes listed below comes from and is discharged to, in gallons per day. By totaling the figures you should have a water balance, with the volume received equaling the volume discharged.

Water Used For:	Water Supply		Water Discharged to		
			DGSD	Other	
	Gals/Day	Source(1)	Gals/Day	Gals/Day	To(2)
Sanitary	11851-13786	A	X		A
Processes	5400-8500	A	X		A
Cooling	0-40	A	X		A
Lawn Sprinkling	X	A			
Scrubber Water (Air pollution control)					
Boiler					
Other (3)					
Total (Gals/Day)		A	X		

Notes: (1) Enter the appropriate code letter indicating the water source: a) Downers Grove Water Departement, b) Westmont Water Department, c) Maple/Belmont Water, d) Oakbrook Water, e) Private Well, f) stormwater, g) recycled or reclaimed water

(2) Enter the appropriate code indicating the discharge point: a) sanitary sewer, b) surface waters, c) storm sewer, d) product, e) evaporation, f) hauled by wastewater hauler.

(3) Describe Other:

D. Environmental Permits [403.12(b)(2)]

Identify all environmental permits held by this facility.

Permitting Agency	Permit Type	Permit Number
IEPA	Generator	ILD 005 084 124
IEPA	Pretreatment	1984- EB - 1508
EPA	Generator	043030017

SECTION IV. Raw Materials and Chemicals

A. Give technical and common names of raw materials and chemicals that are used in the manufacturing or other processes, which can be discharged to the sanitary sewer. In the case of proprietary compounds, provide the manufacturer's name.

Information to complete this section can be taken from self monitoring data, material safety data sheets (MSDS), suppliers of materials, raw material labels, and various trade organizations.

Technical Name	Common Name	Manufacturer's Name
(1) Electro-Lytic Nickel	Nickel Sulfamate Plating Solution	CP Chemical
(2) Techni - Silver E2	Sliver / Copper Plating Solution	Technic, Inc.
(3) Orotemp 24	Soft Gold Plating Solution	Technic, Inc.
(4) Orosene 80	Hard Gold Plating Solution	Technic, Inc.
(5) Potassium Cyanide	Potassium Cyanide	Technic, Inc.

(please attach any additional information on a separate sheet)

B. Are any of the following pollutants used on the premises and therefore have the potential for discharge to the sanitary sewer? If yes, please indicate by checking the appropriate box(es).

___Acrolein (2)
___Acrylonitrile (3)
___Benzene (4)
___Toluene (86)
___Ethylbenzene (38)
___Carbon tetrachloride (6)
___Chlorobenzene (7)
___1,2-Dichloroethane (10)
___1,1,1-Trichloroethane (11)
___1,1-Dichoroethane (13)
___1,1-Dichloroethylene (39)
___1,1,2-Trichloroethane (14)
___1,1,2,2-Tetrachloroethane (15)
___Chloroethane (16)
___Dichlorodifluoromethane (50)
___Dichloro-dibromomethane (51)
___Tetrachloroethylene (85)
___Trichlorethylene (87)
___Vinyl chloride (88)
___1,2-Trans-Dichloroethylene (30)
___Bis(chloromethyl)ether (17)
___Fluoranthene (39)
___Fluorene (80)
___Chrysene (76)
___Pyrene (84)
___2-Chloroethyl vinyl ether (19)
___1,2-Dichlorobenzene (25)
___1,3-Dichlorobenzene (26)
___1,4-Dichlorobenzene (27)
___Hexachloroethane (12)
___Hexachlorobutadiene (52)
___1,2-Dichloropropane (32)
___1,3-Dichloropropene
___Methylene chloride (44)
_*_Methyl chloride (45)
___Methyl bromide (46)
___Bromoform (47)
___Dichlorobromomethane (48)
___Trichlorofluoromethane (49)
___4-Nitrophenol (58)
___2,4-Dinitrophenol (59)
___4,6-Dinitro o-cresol (60)
___Pentachlorophenol (64)
___Anthralene
___Benzo (A) anthralene
___Benzo (B) fluoranthene
___Benzo (K) fluoranthene (75)
___Benzo (A) pyrene (73)
___Indeno(1,2,3-CD) pyrene (83)
___Dibenzo (A,H,) anthralene

* used at Tricon but not suspected to be present in effluent due to Solvent Mgmt. plan.

Section IV. Raw Materials and Chemicals

(6) Enplate Ni 416S	Nickel Plating Solution	Enthone, Inc.

___Phenanthrene (81)
___Hexachlorobenzene (9)
___1,2,4-Trichlorobenzene (8)
___Bis(2-chloroethoxyl)methane (43)
___Naphthalene (55)
___2-Chloronaphthalene (20)
___Isophorone (54)
___Nitrobenzene (56)
___2,4-Dinitrotoluene
___2,6-Dinitrotoluene (36)
___4-Bromophenyl phenyl ether (41)
___Bis (2-ethlyhexyl) phthalate (66)
___Di-N-Octyl phthalate (69)
___Dimethyl phthalate (71)
___Diethyl phthalate (70)
___Di-N-Butyl phthalate (68)
___Acenaphthylene (77)
___Acenaphthene (1)
___Butyl benzyl phthalate (67)
___Phenol (65)
___2-Nitrophenol (57)
___Aldrin (89)
___Dieldrin (90)
___4,4-DDT (92)
___4,4-JDE (p,p-DDX)
___Endrin (98)
___Heptachlor epoxide (101)
___Xylenes
___Toxaphene (113)
___Chlordane (91)
___PCB-4242 (Arochlor 1242) (106)
___PCB-1254 (Arochlor 1254) (107)
___PCB-1221 (Arochlor 1221) (108)
___PCB-1232 (Arochlor 1232) (109)
___PCB-1248 (Arochlor 1248) (110)
___PCB-1260 (Arochlor 1260) (111)
___PCB-1016 (Arochlor 1016) (112)
___Endrin Aldehyde (99)
___Asbestos (116)
___2,3,7,8-Tetrachlordibenzo-P-Dioxin (TCDD) (129)

___Benzo (G,H,I) perylene (79)
___4-Chlorophenyl phenyl ether (40)
___3,3-Dichlorobenzidine (28)
___Benzidine (5)
___Bis (2-chloroethyl) ether (18)
___1,2-Diphenyhydrazine (37)
___Hexachlorocyclopentadiene (53)
___N-Nitrosodiphenylamine (62)
___N-Nitrosodimethylamine (61)
___N-Nitrosodi-N-propylamine (63)
___Bis (2-chloroisopropyl) ether(42)
___P-Chloro-M-cresol
___2-Chlorophenol(24)
___2,4-Diclorophenol
___2,4,6-Trichlorophenol (21)
___2,4-Dimethylphenol (34)
___Heptachlor (100)
___Alpha-endosulfan (95)
___Beta-endosulfan (96)
___Endosulfan-sulfate (97)
___Alpha-BHC (102)
___Beta-BHC (103)
___Gamma-BHC (104)
___Delta-BHC (105)
___Antimony (114)
___Arsenic (115)
___Beryllium (117)
___Cadmium (118)
___Chromium (119)
_X_Copper (120)
___Lead(122)
_X_Total cyanides (121)
___Mercury (123)
_x_Nickel (124)
___Selenium (125)
_X_Silver (126)
___Thallium (127)
___Zinc (128)
___Alkyl Epoxides

___Mineral acids (sulfuric, hydrochloric, nitric, hydrofluoric, chromic, phosphoric, acetic)
___Radioactive nucleotides
___BOD greater than 300 mg/L
___Total suspended solids greater than 350 mg/L
___Fats, oils and grease greater than 100 mg/L
___pH less than 5 or greater than 9
___Strong basic solutions (sodium hydroxide, calcium hydroxide)
___Temperature greater than 157 degrees F or 65 degrees C

C. Pollutant Measurement [403.12(b)(5)(ii) & (viii)]

Attach analytical laboratory reports for the sample(s) and parameters requested in the application form below. These reports must include the analytical laboratory's name, address, telephone number, sampling dates, sample types (i.e., composite, grab, automatic or manual composite, etc.), a description of the sampling location and identity of the parameters with concentrations and units of measurement.

Facility: Tricon Industries, 2325 Wisconsin, Downers Grove, IL

Sampling Point	Sample Type	Number of Samples	Parameters
1. Plating Dept. pretreated wastewater discharge at inspection tank.	flow proportioned composite sample	One	Cadmium (T) Chromium (T Copper (T) Lead (T) Nickel (T) Silver (T) Zinc (T)
2. CN destruction Pit	Grab Samples	Two taken during the same work day	Cyanide (T)

All samples shall be analyzed for the parameters in the right hand column Samples shall be representative of the volume and nature of the discharge and shall be properly preserved at the time of collection.

SECTION V. Process Wastewater Pretreatment System Operations

A. Describe the pretreatment given to process wastewaters prior to discharge to the sanitary sewer system.

Cyanide destruct by Sodium Hypochloride (15%) P.H. adjust by Sodium Hydroxide (50%) and Hydrochloric Acid (20%)

(attach additional sheets as necessary)

B. Does the pretreatment facility have an operating permit from the Illinois Environmental Protection Agency? No ( ) Yes (X)
If yes, what is the IEPA permit number: [redacted] 1984-EB-1608

C. Have the pretreatment facility's plans been submitted and approved by the Downers Grove Sanitary District? No ( ) Yes (X) N/A ( )

Enviro-Test/Perry Laboratories, Inc.
Chicago Dairy & Food Laboratories

319 OGDEN AVENUE DOWNERS GROVE, IL 60515-3142 (708) 963-4672 FAX # (708) 963-4685

IEPA 100186 **CERTIFIED LABORATORY REPORT** IDPH 17134

Tricon Industries
Ms. Sue Grandle
2325 Wisconsin Ave.
Downers Grove, IL 60515

January 31, 1990
Received: 01-22-90
Completed:01-30-90
P.O. #:40862

Lab No.	Sample Identification		
J0150	Cyanide Pit	01-22-90	
J0151	Grab Sample	01-22-90	11:35A

Test Parameter	J0150	J0151
Cyanide (total)	.04	
Copper		.63
Silver		LT .05
Nickel		.61
Zinc		LT .05
Chromium		LT .05
Cadmium		LT .05
Lead		.09

LT means Less Than

All results are total and in ppm unless otherwise noted.
Approved for the examination of water, dairy, chemical, microbiological and container testing by the ILDPH and ILEPA.

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete and accurate.

George Lenos
General Manager

R.J. Jakubiec, PhD
Laboratory Director

D. Provide the names of personnel who operate the pretreatment equipment, their title, and whether they have an IEPA class K operators certificate

		Class K Certified?
Name: Gary Kaupie	Title: Plater	No( ) Yes(X)
Name: Frank Mroczka	Title: Plating Foreman	No(X) Yes( )
Name: Carl Humfleet	Title: Plater	No(X) Yes( )

SECTION VI. Plant Layout Diagram

Attach a diagram of your facility's property, indicating the location of each building on the premises. For each building, provide a drawing which shows the location of water meters, any sewage flow meters, sanitary sewer lines and manholes, storm sewer manholes and streets.

SECTION VII. Statement of Compliance [403.12(b)(7)]

A. Based on the information in this permit application, and to the best of your knowledge, is the wastewater discharged from this facility able to meet the applicable pretreatment standards on a consistent basis?

Yes(X) No( ), Remarks: _____

B. If not, is additional operation and maintenance (O & M) and/or additional pretreatment of the wastewater required to meet the applicable pretreatment standards and requirements?

Yes( ) No( ), Remarks: _____

C. If the answer to Section VII (B) is yes, the Industrial User must submit as part of this application, a compliance schedule or work plan showing the shortest schedule for the User to provide such O & M and/or pretreatment. The compliance schedule given in this application will become attached to and part of the Industrial Discharge Permit. The compliance schedule, or work plan, shall in no case provide for any increment of progress exceeding six (6) months.

Not later than fourteen (14) days following each date in the schedul and the final date for compliance, the User shall submit a progress repor to the District including, as a minimum, whether or not it complied with the increment of progress to be met on such date, if not, the date on which it expects to comply with this increment of progress, the reason fo the delay, and the steps taken by the User to return construction to the schedule established. In no event shall more than six (6) months elapse between progress reports to the District.

SECTION VIII. Certification [403.12(b)(6)]

This application must be reviewed and certified by a principal executive officer of the discharger as to the accuracy of the contents. If pretreatment is provided, the certification must be signed also by a qualified professional who is familiar with the treatment system.

I (we) declare that I (we) have examined this Industrial Discharge Permit Application and certify that to the best of my (our) knowledge and belief, it is true, correct and complete.

Principal Executive Officer

Susan Grandle	Human Resource Manager
Print Name	Title
Susan Grandle	July 18, 1990
Signature	Date

Qualified Professional

Print Name	Title
Signature	Date

It is the responsibility of the Industrial User to be aware of and in compliance with all federal, state and local rules, regulations, laws and ordinances, as they pertain to the discharge of wastewaters generated at the User's facility.